

CLAIMS

What is claimed is:

1. A method for converting image data from a first white point of a display to a second white point, the steps of said method comprising:

solving for the weighting coefficients that relate the first white point coefficients and said second white point;

mapping color values utilizing said first white point, said color values derivable from said weighting coefficients, into another set of color values;

converting input image data into output image data in using said mapping.
2. The method of Claim 1 wherein said first white point is an assumed white point of said display.
3. The method of Claim 1 wherein said first white point is a measured tri-stimulus white point of said display.
4. The method of Claim 1 wherein said second white point is a desired white point of said display.
5. The method of Claim 1 wherein said second white point is the white point with only white subpixels turned on.
6. The method of Claim 1 wherein said method further comprises the step of dynamically changing the weighting coefficients according to user preference.
7. A method for changing the chromaticity triangle calculations for input image data, the steps of said method comprising:

converting input image data to a first color space, said first color space having substantially the same white point as the display;

calculating the chromaticity triangle of the converted input image data.

8. The method of Claim 7 wherein said input image data is in sRGB format.

9. The method of Claim 8 wherein said sRGB input values are converted into values that have substantially the same white point as the display.

10. The method of Claim 9 wherein said converted values have their chromaticity triangles calculated.

11. A method of calculating chromaticity triangles of input image data, the steps of said method comprising:

constructing a plurality of Boolean tests to determine the chromaticity triangle of any input image data;

applying a correction for said Boolean tests depending upon the desired white point of the display.